

U.S.S.N. 09/687,483
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Preliminary Amendment

at page 16, line 7, please replace "refers referes to two or polymorphism" with —refers to two or more polymorphisms—;

at page 16, line 25, please replace "use" with —using—;

at page 16, line 26, please replace "insterest." with —interest.—;

at page 17, line 5, please replace "to means" with —to a means—;

at page 17, line 8, please replace "can be" with —can be done—;

at page 17, line 22, please replace "cinlude" with —include—;

at page 21, line 5, please replace "contain" with —contain,—;

at page 21, line 5, please replace "parameters" with —parameters,—;

at page 21, line 23, please replace "that be" with —that can be—;

at page 22, line 9, please replace "questionnaire," with —questionnaire—;

at page 27, line 3, please replace "WO 99/31273" with —WO 99/31278—;

at page 30, line 20, please replace "recognize" with —to recognize—;

at page 31, line 3, please replace "enzymes" with —enzyme—;

at page 32, line 19, please replace "site" with —sites—;

at page 32, line 24, please replace "correlatate" with —correlate—;

at page 32, line 25, please replace "age." with —age, age groups can be screened for polymorphisms.—;

at page 34, line 4, please replace "CETP Allele CETP" with —CETP Allele—;

at page 37, line 30, please replace "repair pathways" with —repair pathways,—;

at page 40, line 13, please replace "in to" with —to—;

at page 46, line 17, please replace "experiments" with —experiment—;

at page 47, line 1, please replace "individual" with —individuals—;

at page 47, line 15, please replace "considered" with —can be considered—;

at page 50, line 13, please replace "nucleotides" with —nucleotides,—;

at page 55, line 17, please replace "assays" with —assays and—;

at page 55, line 25, please replace "shows" with —show—;

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- at page 56, line 8, please replace "assays" with —assays and—;
- at page 58, line 13, please replace "nanograms)" with —nanograms),—;
- at page 58, line 28, please replace "11.41%" with —11.41%,—;
- at page 62, line 9, please replace "publicly" with —public—;
- at page 68, line 1, please replace "release" with —released—;
- at page 68, line 23, please replace "NO:" with —NO: 36—;
- at page 69, line 17, please replace "For latter" with —For the latter,—;
- at page 71, line 30, please replace "32" with —34—;
- at page 73, line 21, please replace "magnet" with —magnet,—;
- at page 74, line 10, please replace "additional" with —addition—;
- at page 75, line 19, please replace "sulfoxid" with —sulfoxide—;
- at page 76, line 10, please replace "and and" with —and—;
- at page 76, line 23, please replace "release" with —released—;
- at page 76, line 28, please replace "the he" with —the—;
- at page 78, line 9, please replace "it is" with —it does—;
- at page 83, line 13, please replace "Daltons" with —Daltons,—;
- at page 87, line 10, please replace "to A) (SEQ ID #)." with —to A).—;
- at page 90, line 4, please replace "úsd" with —used—;
- at page 90, line 19, please replace "MALTY" with —MALDI—;
- at page 90, line 20, please replace "TOM" with —TOF—;
- at page 91, line 4, please replace "Elme r)," with —Elmer),—;
- at page 99, line 2, please replace "result" with —the result—;
- at page 99, line 14, please replace "is" with —are—;
- at page 101, line 9, please replace "expediential" with —exponential—;
- at page 102, line 13, please replace "has" with —have—;
- at page 104, line 17, please replace "block 55," with —block 55;—;
- NE at page 108, line 18, please replace "as:" with —as: $\sqrt{[(G-R)^2/N]}$
- NE at page 110, line 18, please replace "determined. As" with —determined,

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as—;

IN THE CLAIMS:

Please amend claims 23, 27, 39, 41, 47, 50, and 76 as follows:

23. (Amended) The method of 22, wherein primer oligo base extension, comprises:

- a) obtaining a nucleic acid molecule that contains a target nucleotide;
- b) optionally immobilizing the nucleic acid molecule onto a solid support, to produce an immobilized nucleic acid molecule;
- c) hybridizing the nucleic acid molecule with a primer oligonucleotide that is complementary to the nucleic acid molecule at a site adjacent to the target nucleotide;
- d) contacting the product of step c) with a composition comprising a dideoxynucleoside triphosphate or a 3'-deoxynucleoside triphosphate[s] and a polymerase, so that only a dideoxynucleoside or 3'-deoxynucleoside triphosphate that is complementary to the target nucleotide is extended onto the primer; and
- e) detecting the extended primer, thereby identifying the target nucleotide.

27. (Amended) The combination of claim 26, wherein the parameter is selected from the group consisting of ethnicity, age, gender, height, weight, alcohol intake, number of pregnancies, number of live births, vegetarians, type of physical activity, state of residence and/or length of residence in a particular state, educational level, age of parent at death, cause of parent death, former or current smoker, length of time as a smoker, frequency of smoking, occurrence of disease in immediate family (parent, siblings, children), use of prescription drugs and/or reason therefor, length and/or number of hospital stays and [ecposure] exposure

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to environmental factors.

39. (Amended) The method of claim 37, wherein primer oligo base extension, comprises:

- a) obtaining a nucleic acid molecule that contains a target nucleotide;
- b) optionally immobilizing the nucleic acid molecule onto a solid support, to produce an immobilized nucleic acid molecule;
- c) hybridizing the nucleic acid molecule with a primer oligonucleotide that is complementary to the nucleic acid molecule at a site adjacent to the target nucleotide;
- d) contacting the product of step c) with composition comprising a dideoxynucleoside triphosphate or a 3'-deoxynucleoside triphosphate[s] and a polymerase, so that only a dideoxynucleoside or 3'-deoxynucleoside triphosphate that is complementary to the target nucleotide is extended onto the primer; and
- e) detecting the primer, thereby identifying the target nucleotide.

41. (Amended) The method of claim 36, wherein the target nucleic acids in the sample are detected and/or identified by a method, comprising the steps of:

- a) hybridizing a first oligonucleotide to the target nucleic acid;
- b) hybridizing a second oligonucleotide to an adjacent region of the target nucleic acid;
- c) ligating the[n] hybridized oligonucleotides; and
- [c)] d) detecting hybridized first oligonucleotide by mass spectrometry as an indication of the presence of the target nucleic acid.

47. (Amended) The database of claim 8, wherein:

the [organisms] organisms are selected from among animals, bacteria, fungi, protozoans and parasites and